

Water Treatment

"Water contributes much to health"
Hippocrates (460 to 354 B.C.)

BR Bar Rack
TS Traveling Screen
M Mixing
F Flocculation
S Settling
GF Granular Filtration
CW Clear Well
HSP High Service Pumps
FP Filter Press

Water Treatment

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- **Objective:** remove impurities or to make the water more amenable to subsequent treatments.
- Preliminary treatments: screening, presedimentation, aeration, adsorption, and prechlorination.

Water Treatment

Water intake

Plant intake on the Genesee River

Water Treatment

Bar and traveling screens

Water Treatment

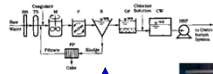
Bar and traveling screens

continuous chain scraper
raking lines
automatic cleaning device
drive
screenings trough
bar screen
raw water
screened water


Water Treatment

Coagulant is added and mixed

Water Treatment




Sedimentation




Upflow clarifier during normal operations

Water Treatment

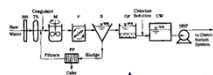


Sedimentation

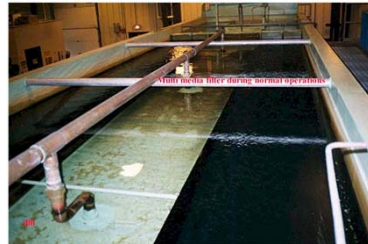


Clarifier during the flushing (cleaning) process

Water Treatment




Filtration




Aramid media filter during normal operations

Water Treatment

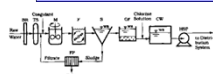


Filtration




Clarifier during the cleaning process

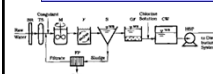
Water Treatment




Check pH



Water Treatment



Add fluoride





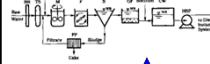
 **Water Treatment** 






Add chlorine





 **Water Treatment** 




Monitor pH, chlorine, and fluoride




 **Water Treatment** 




Water stored in a clear well






 **Water Treatment** 




Water pumped into distribution system



 **Water Treatment** 



Any Questions?